

QP Code : **15796**

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No. 1 is compulsory.
(2) Any **four** from remaining **five** questions.
(3) **All** questions **carry equal** marks.

1. (a) Explain SCSI command model in detail. 10
(b) The average I/O size of an application is 64 KB. The following specifications are available from disk manufactures average seek time = 5ms, 7,200 rpm, transfer rate = 40 MB/s. Determine the maximum IOPS that could be performed with the disk for this application. Taking this case an explain, explain the relationship between disk utilization and IOPS. 10
2. (a) Explain different RAID Levels in detail with neat diagram. 10
(b) Explain CAS architecture in detail. Also explain its advantages. 10
3. (a) Explain Information Life cycle Management. What are the key challenges in managing information? 10
(b) Explain the factors affecting NAS performance and availability in detail. 10
4. (a) Explain failure analysis with respect to business continuity. 10
(b) Explain fibre channel architecture in detail. 10
5. (a) Explain in detail storage security Domains and Implementation in storage networking. 10
(b) Explain forms and configurations of storage virtualization. 10
6. (a) Explain remote replication technologies with neat diagrams. 10
(b) Explain the architecture of Intelligent storage system in detail. 10
7. Write short notes :— 20
 - (a) Zoning
 - (b) LUN and LUN masking
 - (c) Backup granularity
 - (d) Topologies for ISCSI connectivity.